

Resolution No:	<u>17-155</u>
Introduced:	<u>May 26, 2011</u>
Adopted:	<u>May 26, 2011</u>

**COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND**

By: County Council

SUBJECT: Approval of the FY12-17 Capital Improvements Program for the Washington Suburban Sanitary Commission

Background

1. As required by Md. Code Ann., Pub. Util. §23-304, before October 1 of each year, the Washington Suburban Sanitary Commission (WSSC) must prepare and submit to the County Executive and County Council of Montgomery County a 6-year Capital Improvements Program (CIP) for water and sewer facilities.
2. On September 29, 2010, WSSC transmitted its Proposed CIP for Fiscal Years 2012-2017.
3. On January 14, 2011, the County Executive transmitted his recommendations regarding the FY 2012-2017 WSSC CIP.
4. On January 19, 2011, WSSC transmitted a mid-cycle update to its Proposed CIP for Fiscal Years 2012-2017. This update included proposed changes to six CIP projects.
5. Md. Code Ann., Pub. Util. §23-306 authorizes the Council to approve, disapprove, or modify the WSSC CIP.
6. Md. Code Ann., Pub. Util. §23-305 requires that before final action on the WSSC CIP is taken, public hearings must be held on the Program. The Council held public hearings on the CIP on February 8, 2011.
7. The Council considered the recommendations of the Executive and the Montgomery County Planning Board with respect to the CIP and reviewed the project description forms.
8. The Council recognizes that the information and documentation contained in the CIP is an integral part of the Comprehensive Water Supply and Sewerage Systems Plan which must be submitted to the State Department of the Environment in accordance with Section 9-501 et seq. of the Environment Article of the Maryland Code.

9. On May 12, 2011, the Montgomery County and Prince George's County Councils jointly reviewed their respective proposed additions to, deletions from, increases to, and decreases in the WSSC capital and operating budgets and further considered all proposed changes. The Councils agree on changes to the WSSC Proposed CIP.

Action

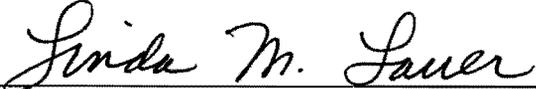
The County Council for Montgomery County, Maryland approves the following resolution for the Washington Suburban Sanitary Commission:

1. The Council approves the projects in the WSSC Proposed CIP for FY12-17 as transmitted on September 29, 2010, except those projects which are approved as modified by the Montgomery and Prince George's County Councils. Amended project description forms are attached to this resolution and are identified by the following WSSC project numbers:

S-22.06, S-22.07, S-22.08, S-22.09, S-22.10, S-22.11

2. The Council approves the close out of the projects in Part I.

This is a correct copy of Council action.



Linda M. Lauer, Clerk of the Council

A. Identification and Coding Information

1. Project Number Agency Number Update Code
 954811 S-22.06 Change

2. Date: October 1, 2010
 Revised: January 19, 2011

3. Project Name: Blue Plains WWTP: Liquid Train Projects, Part 2

4. Program: Sanitation 6. Planning Area: Bi-County

5. Agency: **WSSC**

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

B. Expenditure Schedule (000's)

	(8) Total	(9) Thru FY '10	(10) Estimate FY '11	(11) Total 6 Years	(12) Year 1 FY '12	(13) Year 2 FY '13	(14) Year 3 FY '14	(15) Year 4 FY '15	(16) Year 5 FY '16	(17) Year 6 FY '17	(18) Beyond 6 Years
Cost Elements											
Planning, Design & Supervision	50,592	39,269	1,500	8,429	2,135	1,267	1,401	1,185	1,029	1,412	1,394
Land											
Site Improvements & Utilities											
Construction	209,845	179,571	2,067	22,873	7,225	6,398	2,597	801	922	4,930	5,334
Other	417		36	314	94	77	40	20	20	63	67
Total	260,854	218,840	3,603	31,616	9,454	7,742	4,038	2,006	1,971	6,405	6,795

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	246,534	206,827	3,405	29,880	8,935	7,317	3,816	1,896	1,863	6,053	6,422
City of Rockville	14,320	12,013	198	1,736	519	425	222	110	108	352	373

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of Blue Plains liquid train projects for which construction began after June 30, 1993. Major projects include: Filtration and Disinfection Rehabilitation; and Dual Purpose Sedimentation Basins Rehabilitation.

Service Area Bi-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies
 The Blue Plains Intermunicipal Agreement of 1985; the DCWASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data
 This is a continuation of the DCWASA's upgrading of the Blue Plains Wastewater Treatment Plant.

Cost Change
 Cost increase is primarily due to revised higher estimates for the Primary Treatment Facilities Phase II Upgrade and Grit Chamber Phase II Upgrade projects and the addition of the new Raw Wastewater Pumping Station No.2 Upgrade project.

STATUS Not Applicable

OTHER
 The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast of spending and DCWASA's latest project management data, and fully reflect DCWASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION
 City of Rockville (responsible for a share of funding), District of Columbia Water & Sewer Authority (responsible for design and construction) and WSSC Projects S-22.08, Blue Plains WWTP: Biological Nutrient Removal and S-22.10, Blue Plains WWTP: Enhanced Nutrient Removal.

NOTE This project supports 100% System Improvement.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	21498
Total Costs		21498
Impact on Water or Sewer Rate.....		46¢

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	69,745
Cost Estimate Last FY	240,383
Present Cost Estimate	260,854
Approved Request, Last FY	2,834
Total Expenditures & Encumbrances	218,840
Approval Request FY 12	9,454
Supplemental Approval Request Current FY (11)	

G. Status Information

Land Status: Not applicable
 % Project Completion: On-Going
 Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

Attachment to Resolution No.: 17-155

A. Identification and Coding Information

1. Project Number: 954812 Agency Number: S-22.07 Update Code: Change

2. Date: October 1, 2010 Revised: January 19, 2011

3. Project Name: Blue Plains WWTP: Biosolids Management, Part 2

4. Program: Sanitation 5. Agency: WSSC 6. Planning Area: Bi-County

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.:

B. Expenditure Schedule (000's)

	(8) Total	(9) Thru FY '10	(10) Estimate FY '11	(11) Total 6 Years	(12) Year 1 FY '12	(13) Year 2 FY '13	(14) Year 3 FY '14	(15) Year 4 FY '15	(16) Year 5 FY '16	(17) Year 6 FY '17	(18) Beyond 6 Years
Cost Elements											
Planning, Design & Supervision	75,551	46,408	11,080	18,010	7,032	5,549	4,260	622	312	235	53
Land											
Site Improvements & Utilities											
Construction	262,648	69,836	15,121	177,682	54,921	82,401	32,696	4,990	2,521	153	9
Other	2,221		262	1,958	620	880	370	56	28	4	1
Total	340,420	116,244	26,463	197,650	62,573	88,830	37,326	5,668	2,861	392	63

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	321,733	109,863	25,010	186,800	59,138	83,954	35,277	5,357	2,704	370	60
City of Rockville	18,687	6,381	1,453	10,850	3,435	4,876	2,049	311	157	22	3

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of the Blue Plains biosolids handling projects for which construction began after June 30, 1993. Major projects include: new digestion facilities; gravity and centrifuge thickener facilities; area electrical substation #6; and solids processing building/dewatered sludge loading facility.

Service Area: Bi-County Area Capacity: 370 MGD

JUSTIFICATION

Plans & Studies
The Blue Plains Intermunicipal Agreement of 1985; the DCWASA Master Plan (1998); EPMC IV Facility Plan (CH2MHILL, 2001); the Biosolids Management at DCWASA Blue Plains Wastewater Treatment Plant Phase II - Design and Cost Considerations for Treatment Alternatives Report (December 2007); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data
This project is needed to implement a set of facilities which will provide a permanent biosolids management program for Blue Plains.

Cost Change
Cost decrease is primarily due to refined estimates as the Anaerobic Digesters, Centrifuge Thickening Facilities, and Area Substation No. 6 projects progress through design.

STATUS Not Applicable

OTHER
The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast of spending and DCWASA's latest project management data, and fully reflect DCWASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION
City of Rockville (responsible for a share of funding) and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% System Improvement.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	.....	28055
Total Costs			28055
Impact on Water or Sewer Rate.....			61¢

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	77,296
Cost Estimate Last FY	360,331
Present Cost Estimate	340,420
Approved Request, Last FY	38,980
Total Expenditures & Encumbrances	116,244
Approval Request FY 12	62,573
Supplemental Approval Request Current FY (11)	

G. Status Information

Land Status: Not applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

1. Project Number: 973817 Agency Number: S-22.08 Update Code: Change

2. Date: October 1, 2010 Revised: January 19, 2011

3. Project Name: Blue Plains WWTP: Biological Nutrient Removal

4. Program: **Sanitation** 5. Agency: **WSSC** 6. Planning Area: Bi-County

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.:

B. Expenditure Schedule (000's)

	(8) Total	(9) Thru FY '10	(10) Estimate FY '11	(11) Total 6 Years	(12) Year 1 FY '12	(13) Year 2 FY '13	(14) Year 3 FY '14	(15) Year 4 FY '15	(16) Year 5 FY '16	(17) Year 6 FY '17	(18) Beyond 6 Years
Cost Elements											
Planning, Design & Supervision	18,470	14,223	1,758	2,489	1,279	1,128	82				
Land											
Site Improvements & Utilities											
Construction	65,559	46,243	2,214	17,102	6,903	8,219	981	644	355		
Other	236		40	196	82	93	11	6	4		
Total	84,265	60,466	4,012	19,787	8,264	9,440	1,074	650	359		

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	39,819	28,573	1,896	9,350	3,905	4,461	508	307	169		
State Aid	42,133	30,233	2,006	9,894	4,132	4,720	537	325	180		
City of Rockville	2,313	1,660	110	543	227	259	29	18	10		

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of the Blue Plains Biological Nutrient Removal Pilot Project and BNR Permanent Facility design and construction. The project includes modifications to the nitrification basins, methanol storage and feed facilities, a control building, addition of fine bubble diffusers, and improvements to the nitrification facilities (Phase II). This project is stipulated in the 1995 Consent Decree signed by the District of Columbia and the United States Department of Justice.

Service Area Bi-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies
Porter, MacNamee & Seely Study (1992); Civil Action No. 90-163; Civil Action No. 84-2842 JGP; the DCWASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data
The initial \$12.1 million Pilot Project was planned as a phased, four year, half-plant trial. For the Pilot, portions of the nitrification basins were converted to anoxic zones with methanol added as the carbon source. After the Pilot Project proved successful in the first two years, the third and fourth years were not required and the design and construction of permanent BNR facilities commenced. The Consent Decree acknowledged that applying this technology was experimental.

Cost Change
Cost increase is based upon actual expenditure data as projects progress through construction.

STATUS Under Construction

OTHER
The project scope has remained the same. The expenditure schedule shown above reflects the cost of permanent BNR facilities as required under the Consent Decree. Phase I and portions of Phase II are complete. The Maryland Department of the Environment (MDE) has, by agreement, committed to providing 50% grant funding for eligible costs.

COORDINATION
City of Rockville (responsible for a share of funding), Maryland Department of the Environment and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	.....	
	Other .....	.....	
Facility Costs	Maintenance .....	.....	
	Debt Service	3472	.....	17
Total Costs		3472	.....	17
Impact on Water or Sewer Rate		7¢	.....	17

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 96
Date First Approved	FY 96
Initial Cost Estimate	12,189
Cost Estimate Last FY	81,051
Present Cost Estimate	84,265
Approved Request, Last FY	7,506
Total Expenditures & Encumbrances	60,466
Approval Request FY 12	8,264
Supplemental Approval Request Current FY (11)	

G. Status Information

Land Status: Not applicable

% Project Completion: C-90%

Est. Completion Date: FY 2016

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
023805	S-22.09	Change

2. Date: October 1, 2010

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

Revised: January 19, 2011

3. Project Name: Blue Plains WWTP: Plant-wide Projects

5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: Bi-County

B. Expenditure Schedule (000's)

	(8) Total	(9) Thru FY '10	(10) Estimate FY '11	(11) Total 6 Years	(12) Year 1 FY '12	(13) Year 2 FY '13	(14) Year 3 FY '14	(15) Year 4 FY '15	(16) Year 5 FY '16	(17) Year 6 FY '17	(18) Beyond 6 Years
Cost Elements											
Planning, Design & Supervision	47,252	40,874	1,192	4,186	1,134	868	398	387	450	949	1,000
Land											
Site Improvements & Utilities											
Construction	151,003	105,982	9,776	25,552	6,520	9,149	4,847	2,933	1,451	652	9,693
Other	514		110	297	77	100	52	33	19	16	107
Total	198,769	146,856	11,078	30,035	7,731	10,117	5,297	3,353	1,920	1,617	10,800

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	187,859	138,795	10,470	28,387	7,307	9,562	5,006	3,169	1,815	1,528	10,207
City of Rockville	10,910	8,061	608	1,648	424	555	291	184	105	89	593

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of Blue Plains plant-wide projects for which construction began after June 30, 1993. Major projects include: Process Control Computer Systems; Electrical Power Systems Additions, Phases I & II; High Priority Rehabilitation Program; and Plant-wide Fine Bubble Aeration Conversion.

Service Area Bi-County Area

Capacity 370 MGD

JUSTIFICATION

Plans & Studies

The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data

This is a continuation of the DCWASA's upgrading of the Blue Plains Wastewater Treatment Plant.

Cost Change

Cost increase primarily due to additions to Miscellaneous Facilities Upgrades, and new Warehouse Facility, and new Central Office Facility and Central Maintenance Facility Upgrades projects.

STATUS Not Applicable

OTHER

The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect DCWASA's current expenditure estimates and schedules. Given the open-ended nature of the project, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

City of Rockville (responsible for a share of funding) and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% System Improvement.

E. Annual Operating Budget Impact (000's)

FY of Impact

Program Costs	Staff .....	.....
	Other .....	.....
Facility Costs	Maintenance .....	.....
	Debt Service	16381
Total Costs		16381
Impact on Water or Sewer Rate.....		35¢

F. Approval and Expenditure Data (000's)

Date First in Capital Program	<input type="text" value="FY 95"/>
Date First Approved	<input type="text" value="FY 02"/>
Initial Cost Estimate	<input type="text" value="84,650"/>
Cost Estimate Last FY	<input type="text" value="179,915"/>
Present Cost Estimate	<input type="text" value="198,769"/>
Approved Request, Last FY	<input type="text" value="9,784"/>
Total Expenditures & Encumbrances	<input type="text" value="146,856"/>
Approval Request FY 12	<input type="text" value="7,731"/>
Supplemental Approval Request Current FY (11)	<input type="text"/>

G. Status Information

Land Status: Not applicable
 % Project Completion: On-Going
 Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

1. Project Number: 113804 Agency Number: S-22.11 Update Code: Change

2. Date: October 1, 2010 Revised: January 19, 2011

3. Project Name: Blue Plains: Pipelines & Appurtenances

4. Program: **Sanitation** 5. Agency: **WSSC**

6. Planning Area: Bi-County

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '10	(10) Estimate FY '11	(11) Total 6 Years	(12) Year 1 FY '12	(13) Year 2 FY '13	(14) Year 3 FY '14	(15) Year 4 FY '15	(16) Year 5 FY '16	(17) Year 6 FY '17	(18) Beyond 6 Years
Planning, Design & Supervision	23,179	3,405	3,442	12,242	2,787	1,428	1,222	1,923	2,207	2,675	4,090
Land											
Site Improvements & Utilities											
Construction	71,906	13,266	5,055	48,461	7,252	11,059	7,983	7,811	6,892	7,464	5,124
Other	783		85	606	100	125	92	97	91	101	92
Total	95,868	16,671	8,582	61,309	10,139	12,612	9,297	9,831	9,190	10,240	9,306

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	90,606	15,756	8,111	57,944	9,582	11,920	8,787	9,291	8,686	9,678	8,795
City of Rockville	5,262	915	471	3,365	557	692	510	540	504	562	511

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of Blue Plains-associated projects which are "outside the fence" of the treatment plant. Major projects include: Potomac Interceptor Rehabilitation; Upper Potomac Interceptor; Potomac Sewage Pumping Station Rehabilitation; Influent Sewers Rehabilitation; and the new projects associated with the Combined Sewer Overflow (CSO) Long Term Control Plan (e.g. Anacostia Tunnel).

Service Area Bi-County Area **Capacity** Various

JUSTIFICATION

Plans & Studies
The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data
This is a continuation of DCWASA's upgrading of the Blue Plains-associated projects outside the fence.

Cost Change
Cost decrease is due to refinement of cost estimates as the projects progress through design and construction.

STATUS Not Applicable

OTHER
The project scope has remained the same. Project costs are derived from the DC-WASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect WASA's current expenditure estimates and schedules. Given the open-ended nature of the project, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION
City of Rockville (responsible for a share of funding) and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 45% System Improvement and 55% Environmental Regulation.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	.....	7901
Total Costs		.....	7901
Impact on Water or Sewer Rate		.....	17¢

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 11
Date First Approved	FY 02
Initial Cost Estimate	102,833
Cost Estimate Last FY	102,833
Present Cost Estimate	95,868
Approved Request, Last FY	9,331
Total Expenditures & Encumbrances	16,671
Approval Request FY 12	10,139
Supplemental Approval Request Current FY (11)	

G. Status Information

Land Status: Not Applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

PART I: WASHINGTON SUBURBAN SANITARY COMMISSION
CAPITAL PROJECTS TO BE CLOSED OUT

The Washington Suburban Sanitary Commission has authorized the close out of the following projects.

<u>COUNTY NUMBER</u>	<u>CATEGORY</u>	<u>PROJECTS</u>
964860	Montgomery County	Clarksburg Town Center Water Main
973820	Montgomery County	Rock Creek Wastewater Facilities
093804	Bi-County	Sewer Basin Planning Program